

FIG. 1

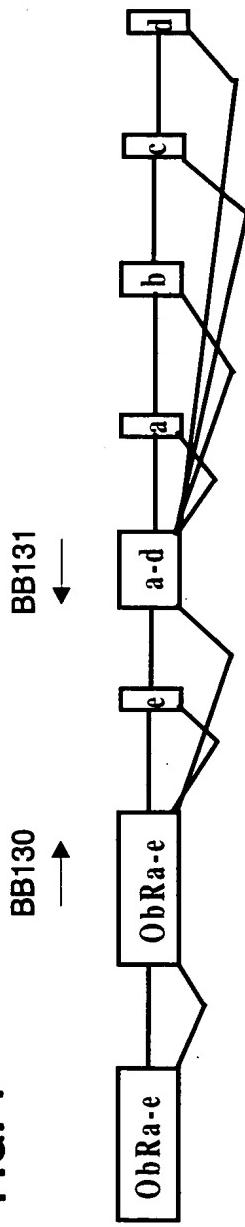


FIG. 2A

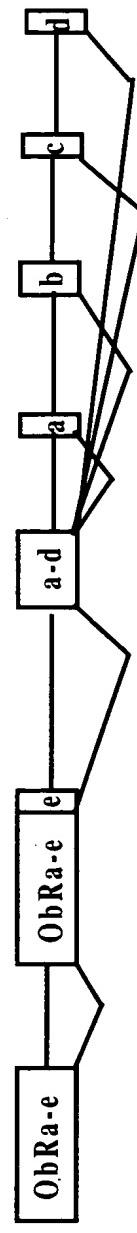
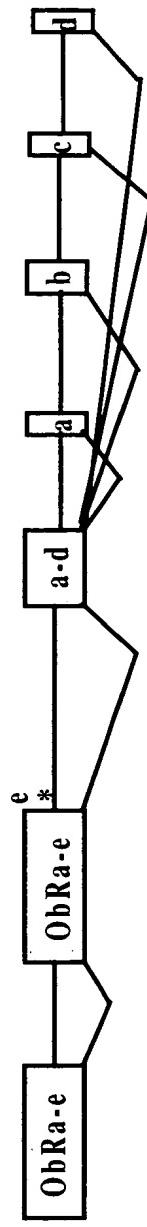


FIG. 2B



APPROVED O.G. FIG.
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FIGURE 3A FIGURE 3B

FIG. 3A

Sequence across the mouse intron-exon border:

aatgttaaaaagttcacatccacggtatgttactgttactttcatggattag
N V K F H I H G M C T V L F M D *

Sequence across the human intron-exon border:

tctgttaagaagtttatccatggtaaagtttactatacttttag
S V K Y I H G K F T I L *

FIG. 3B

Mouse Ob-Re:
Human Ob-Re:

ggtatgttactgttactttcatggat
ggtaaagtttactatacttt

Mouse Ob-Re:
Human Ob-Re:

G M C T V L F M D
G K F T I L

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FIG. 4A

60
 1 ATGATTGTCAAAATTCTGTCATATGCCATTGGAAATTGTGATAACT
 61 GCGTTAACCTTGTCAATTCCAACTTCTGGAGATTAAAGTTGCTGCCACCA 120
 121 AATTCAACCTATGACTACTTCCCTTGGCCTGGACTCTCAAAGAATACTTC 180
 181 AATGGACATTATGAGACAGCTGTTGAACCTAAAGTTAAATTCAAGTGCTACTTCT 240
 241 AACTTATCCAAACAACTTTCCACTGTGCTTCAACAGTAATTCTTAGTTTT 300
 301 TTATGTGCAGACACATTAAGGAAAGACATTGTTCAACAGTAATTCTTAGTTTT 360
 361 CAACAAATAGATGCCAAACTGGAACATACAGTGTGGCTAAAAGGAGACTTAAATTATTC 420
 421 ATCTGTTATGTGGAGTCATTATTAAGAATCTATTCAAGGAATTATAACTATAAGGCCAT 480
 481 CTTTTATGTGTTCTGCCTGAAGTGTAGAAGATTCACCTCTGGTCCCCAAAAAGGCAGT 540
 541 TTTCAGATGGTCACTGCCAATTGCAATTGCAATTGCTCATGAATGTTGAATGTCCTGTGTG 600
 601 CCAACAGCCAACCTCAACGACACTCTCAGTTCAGTTCAAGCCATAAAATATGGTGAAGGCCA 660
 661 ATTTCAGTCACCTCTAAATGTCAGTTCAATGGTCAATTGGTAATTAAAGATTCTGGTCCAGCCA 720
 721 TTAGGTTGCAATTGGAAATCACAGATGGTAATTAAAGATTCTGGTCCAGCCA 780
 781 CCATTGGTACCATTTCCACTTCAAAATATCAAGTGAATATTCAAGAATTCTACAACAGTT 840
 841 ATCAGAGAAAGCTGACAAGATTGTCAGCTACATCCCTGCTAGTAGACAGTATACTTCCT 900
 901 GGGTCTTCGTTGAGGTTCAAGGTGAGGGCAAGAGACTGGATGGCCAGGAATCTGGAGT 960
 961 GACTGGAGTACTCCTCGTGTCTTACCAACACAGATGTCAATTACCTAACCTAAATT 1020
 1021 CTGACAAGTGTGGGTCTAATGTTTCTTCACTGCATCTATAAGAAGGAAACAAAGATT 1080
 1081 GTTCCCTCAAAAGAGATTGTTGGGATGAATTAGCTGAGAAAATTCCCTCAAAGCCAG 1140
 1141 TATGATGTTGTGAGTGCATGTTAGCAAAGTTACTTTCAATCTGAATGAAACCAA 1200
 1201 CCTCGAGGAAAGTTACCTATGATGCAATTGCTGACTGCAATTGAAACATGAATGCCATCAT 1260

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FIGURE 4B

FIG. 4B

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1261	CGCTATGCTGAATTATGTGATTGATGTCATAATCAATATCATGTGAAACTGATGGG	1320
1321	TACTTAACCTAAATGACTTGCAGATGGGTATCATAGGAGCAGCAGCTTACTGTTCTGATAATTCCCATCTATTCAT	1380
1381	ACTTTGCAATTGAGGTATCATAGGAGCAGCAGCTTACTGTTCTGATAATTCCCATCTATTCAT	1440
1441	CCCATATCTGAGCCCACAAAGATTGCTATTGCAAGAGTGTGATTGGATTAGGATCAAATCAGCTTAGGT	1500
1501	CAGCCAATCTTCCTATTATCTGGCTACACAATGTTGAGCTTAAAGGAAATTACTAAACATGGATTATGAAATATCTGGAAAAG	1560
1561	TCACTTGACTCTCCACCAACATGTTGCTCTCTGATTCTGTGGTGAAGCCACTGCCTCCA	1620
1621	TCCAGTGTGAAGCAGAAATTACTAAACATGGATTATGAAATATCTGGAAAAG	1680
1681	CCAGCTTCCAGAGATAACCTTCAATTCCAGATTCCAGATTGGCTATGGTTAAGTGGAAAAGAA	1740
1741	GTACAATGGAAAGATGTGATTGAGGTTATGATGCCAAATCAAATCTGTCAGTCTCCCAGTT	1800
1801	CCAGACTTGTGTGCCAGTCTATGCTGTCAAGGGCTAGATGGACTGGGA	1860
1861	TATTGGAGTAATTGGAGAAATAATTAAATGGAGATACTATGAAAAAGGAGAAATGTCATGGATATAAAAGTTCCCTATG	1920
1921	AGAGGACCTGAAATTGGCCCTGATGAAAAAATGACTCATGGAGATAACTATGAAAAAGGAGAAATGTC	1980
1981	ACTTTACTTTGGAAAGCCCCCTGATGAAAAAATGACTCATGGCAGTTCAAGAGATATGTG	2040
2041	ATAAACCACATCATACTTCCCTGCAATGGAACATGGTCAAGAACATGGAAAGATGTGGAAATCACACGAAA	2100
2101	TTCACTTCTCTGGACAGGCAAGCACATCTGTTACGGTTCTGGCCATCAATTCAATT	2160
2161	GGTGTCTGTGCAAAATTAAACCTTTCAATTGAGCTTACAGGCAAGGAAAGTAAATATC	2220
2221	GTGCAGTCACTCAAGTGCCTTACCCATTGAGCTTGTGTGATTGTTCTGGATACTA	2280
2281	TCACCCAGTGAATTACAAGCTAATGTATTGAGTGGAAAATCTTAATGAAGAT	2340
2341	GGTGAATAAAATGGCTTAGAATCTCTTCACTGTGTTAAGAAGTATATCCATGGTAAG	2400
2401	TTTACTTAACTTTAG	2415

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20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	
T	P	S	S	S	F	F	H	S	V	V	P	P	V	P	I	I	Q	K	H		
I	P	N	F	C	V	L	V	G	P	G	P	S	T	L	W	K	S	T	H		
V	M	S	H	N	L	K	K	V	G	D	S	T	I	I	P	N	Q	E	C		
Y	C	T	T	R	S	L	Y	Q	L	S	P	W	S	S	G	P	E	P	N	E	
I	I	S	N	G	D	N	D	N	P	C	T	K	S	N	D	P	F	K	I	L	H
F	L	K	S	Q	V	G	Y	V	E	I	V	I	E	V	G	Y	K	K	N	E	
E	K	S	S	E	T	K	N	L	C	K	M	K	S	L	D	I	Y	E	F	N	
W	F	L	N	S	S	L	R	P	C	L	N	L	Y	L	V	I	A	F	C		
H	R	G	F	R	V	W	F	S	E	C	I	N	K	S	R	D	C	L	T	C	
L	W	A	K	F	C	L	D	H	M	P	G	V	T	K	Q	H	N	V	Y		
L	P	P	P	C	T	Q	N	E	V	L	Q	D	Q	A	G	T	F	M	K	V	
V	T	L	E	C	K	I	K	L	S	L	V	D	Y	S	R	T	S	W	S	A	
V	I	L	V	H	G	N	F	V	C	T	S	T	Q	V	V	F	V	W	V	D	
C	P	F	A	F	E	W	L	E	N	D	M	I	L	I	Q	V	N	V	H	Y	
F	Y	Y	T	T	I	N	S	P	C	N	L	E	P	K	V	R	S	I	D	T	
K	S	D	E	T	N	A	E	L	H	L	P	M	F	D	V	R	S	I	D	T	
Q	L	Y	Y	K	D	D	V	V	V	K	S	H	P	A	Y	T	V	K	V	K	
C	N	T	H	S	A	I	Y	Y	M	A	Q	L	V	E	S	S	S	V	V	G	
I	F	S	G	L	C	Q	C	L	Q	T	F	G	L	R	S	W	T	P	D	R	
M	A	N	N	L	Q	I	L	Q	T	F	G	L	R	S	W	T	P	D	R		
1	21	41	61	81	101	121	141	161	181	201	221	241	261	281	301	321	341	361	381	401	

FIG. 5A

APPROVED	O.G. FIG.
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421	441	461	481	501	521	541	561	581	601	621	641	661	681	701	721	741	761	781	801
440	460	480	500	520	540	560	580	600	620	640	660	680	700	720	740	760	780	800	804
G	S	H	F	G	P	K	E	V	G	M	V	V	K	I	I	L	D	K	
D	E	I	I	L	P	E	K	P	L	P	N	Y	T	S	N	I	E	G	
T	A	S	C	S	L	W	G	L	G	V	K	R	H	N	V	W	N	H	
E	L	P	E	H	P	S	S	S	D	K	E	Q	N	I	K	S	L	I	
C	S	I	Y	N	K	I	L	V	L	I	V	G	A	S	V	N	Y		
S	Q	D	F	I	V	K	G	S	R	D	K	S	V	L	M	I	K	Y	
I	I	S	G	R	V	L	Y	K	K	M	M	C	D	V	P	V	W	K	
N	T	C	D	I	S	L	R	S	C	V	T	L	E	T	W	C	E	K	
I	S	Y	S	W	D	G	I	K	R	V	D	S	S	V	S	I	V		
N	T	L	Q	M	P	I	Q	A	V	T	G	D	W	T	F	S	I	S	
V	S	S	L	T	N	F	D	Q	Y	N	N	T	H	T	N	F	S		
D	W	S	Y	Y	V	I	Q	Y	V	A	I	K	G	A	L	L	Y	S	
I	R	R	C	G	C	T	L	V	A	P	I	M	N	Q	N	P	M	I	
V	C	H	D	S	T	I	N	E	Y	N	R	L	C	E	F	Y	L	R	
Y	T	Y	K	L	P	E	N	Y	V	S	W	P	S	T	N	A	K	L	
L	M	R	P	L	P	A	E	M	A	W	F	K	T	W	A	S	Y	W	
E	K	L	E	F	S	K	P	K	C	N	E	W	H	L	V	L	D	K	
A	T	Q	S	I	D	V	F	W	L	S	P	L	H	F	S	S	I	I	
Y	L	L	I	P	S	V	Q	D	W	G	L	N	T	A	Q	P	E	T	
R	Y	T	P	Q	S	V	P	V	G	L	H	F	S	L	D	S	I	I	
421	441	461	481	501	521	541	561	581	601	621	641	661	681	701	721	741	761	781	801

FIG. 5B

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FIG. 6A

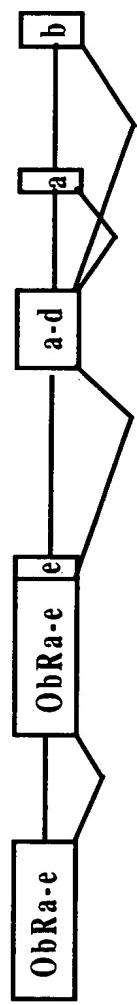
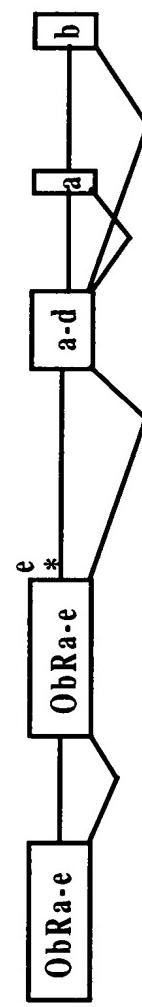


FIG. 6B



APPROVED	O.G. FIG.
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FIG. 7A

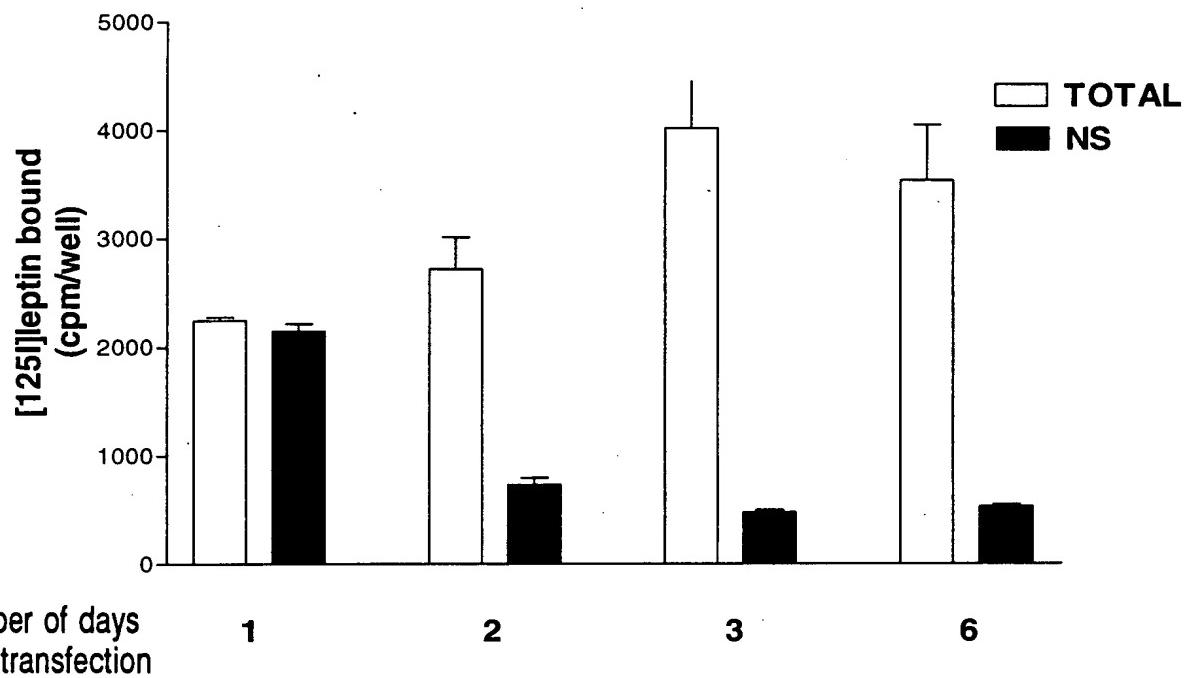
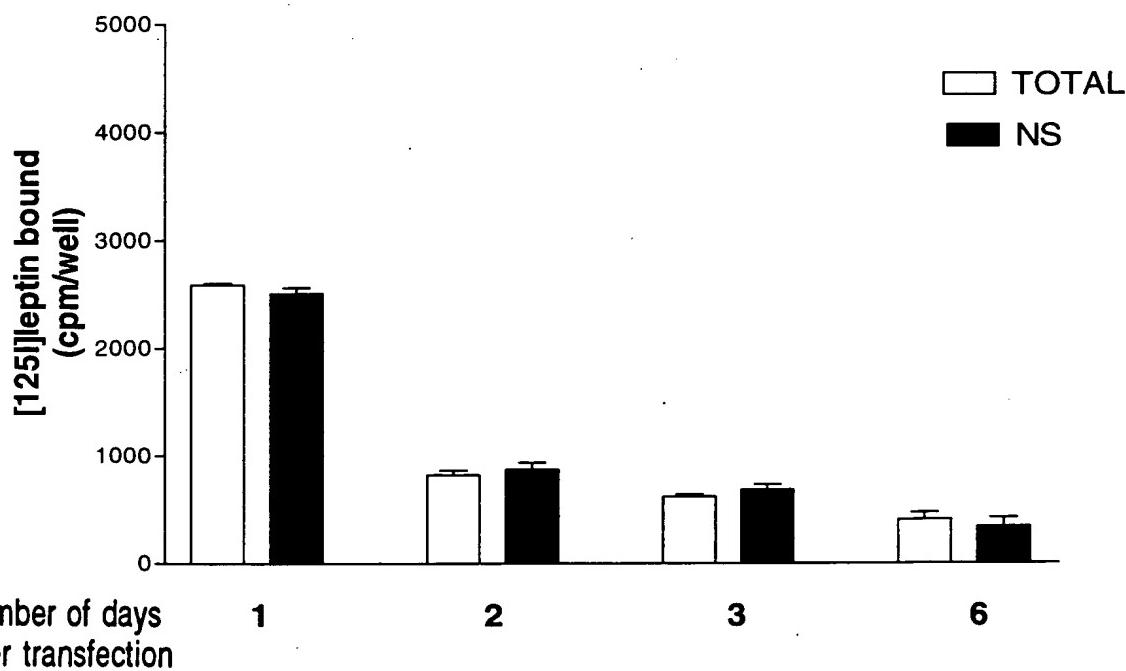


FIG. 7B



APPROVED	O.G. FIG.
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FIG. 7C

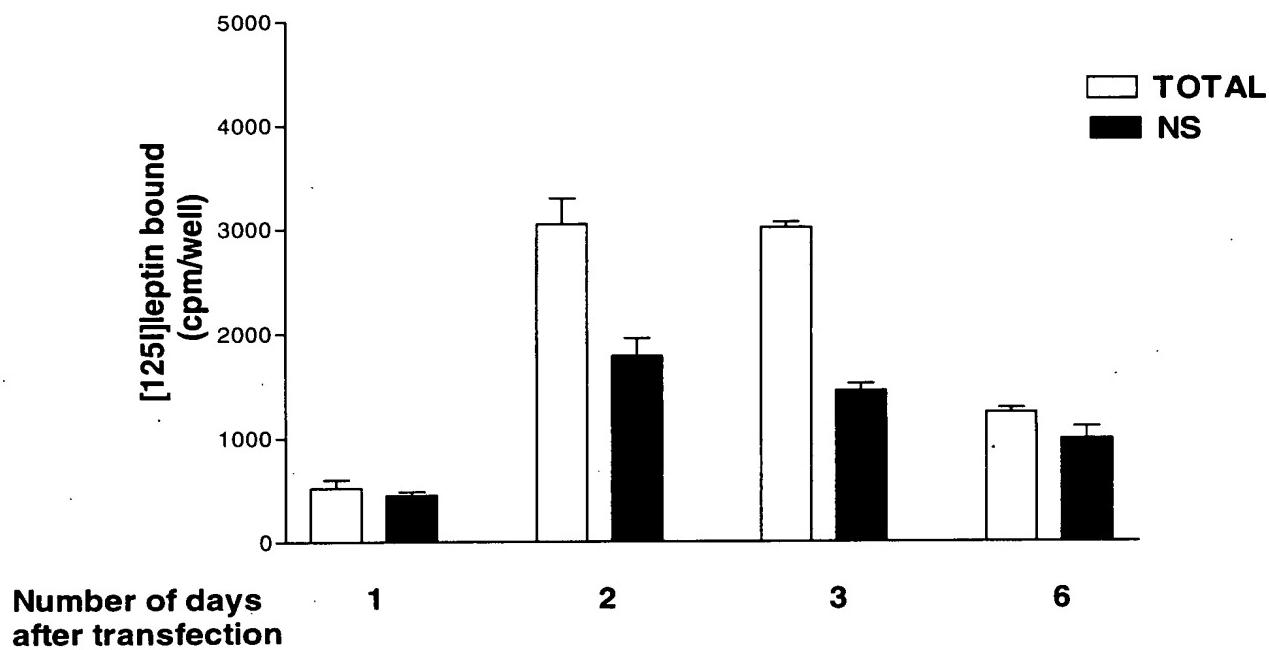


FIG. 7D

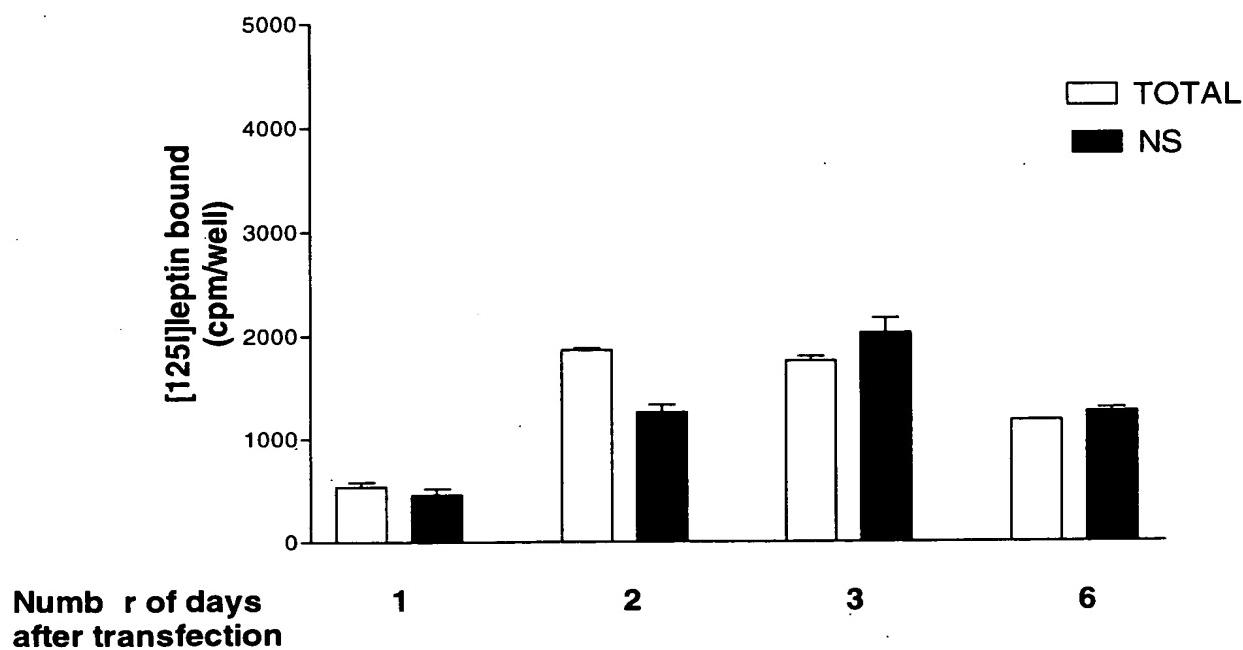
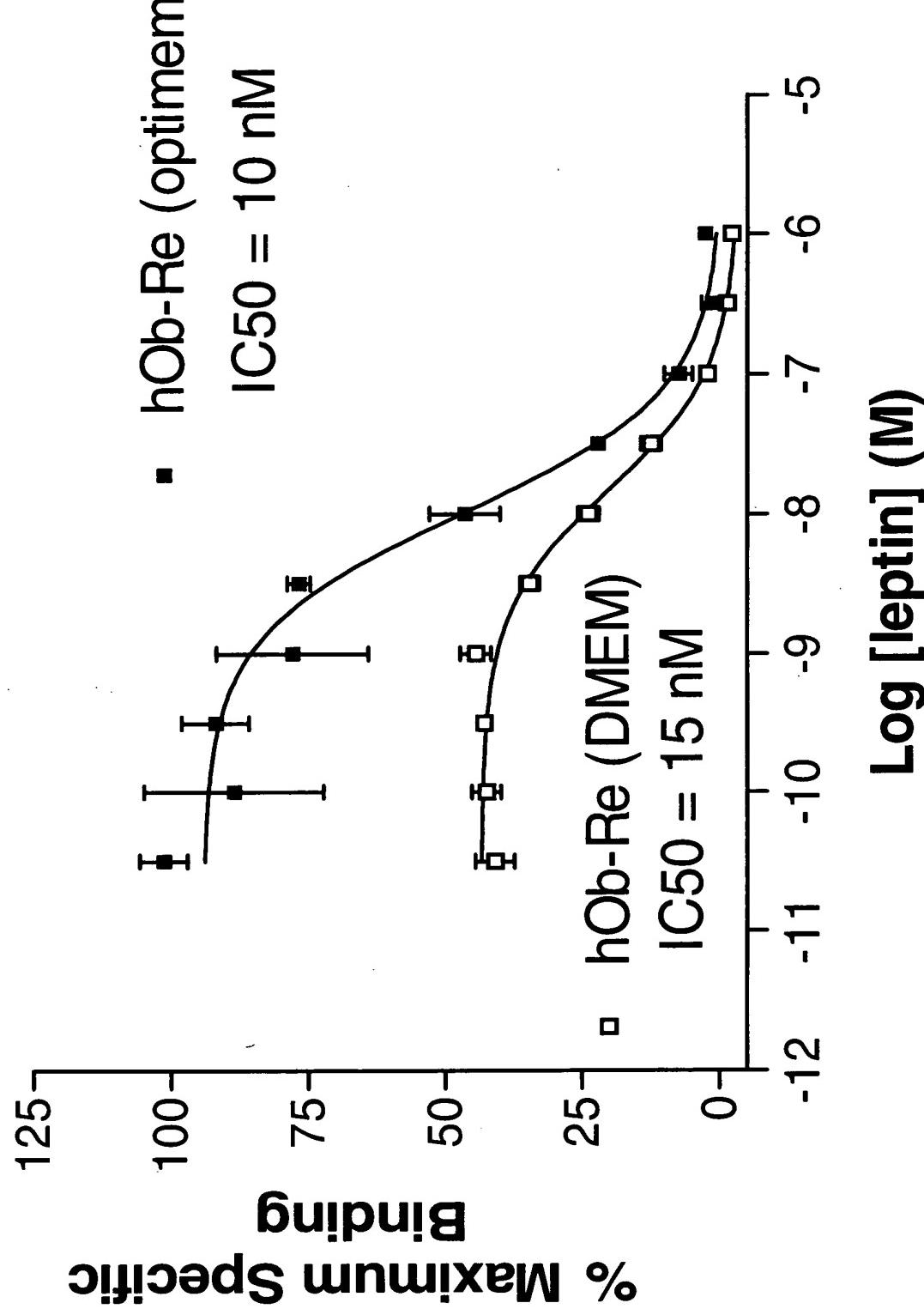


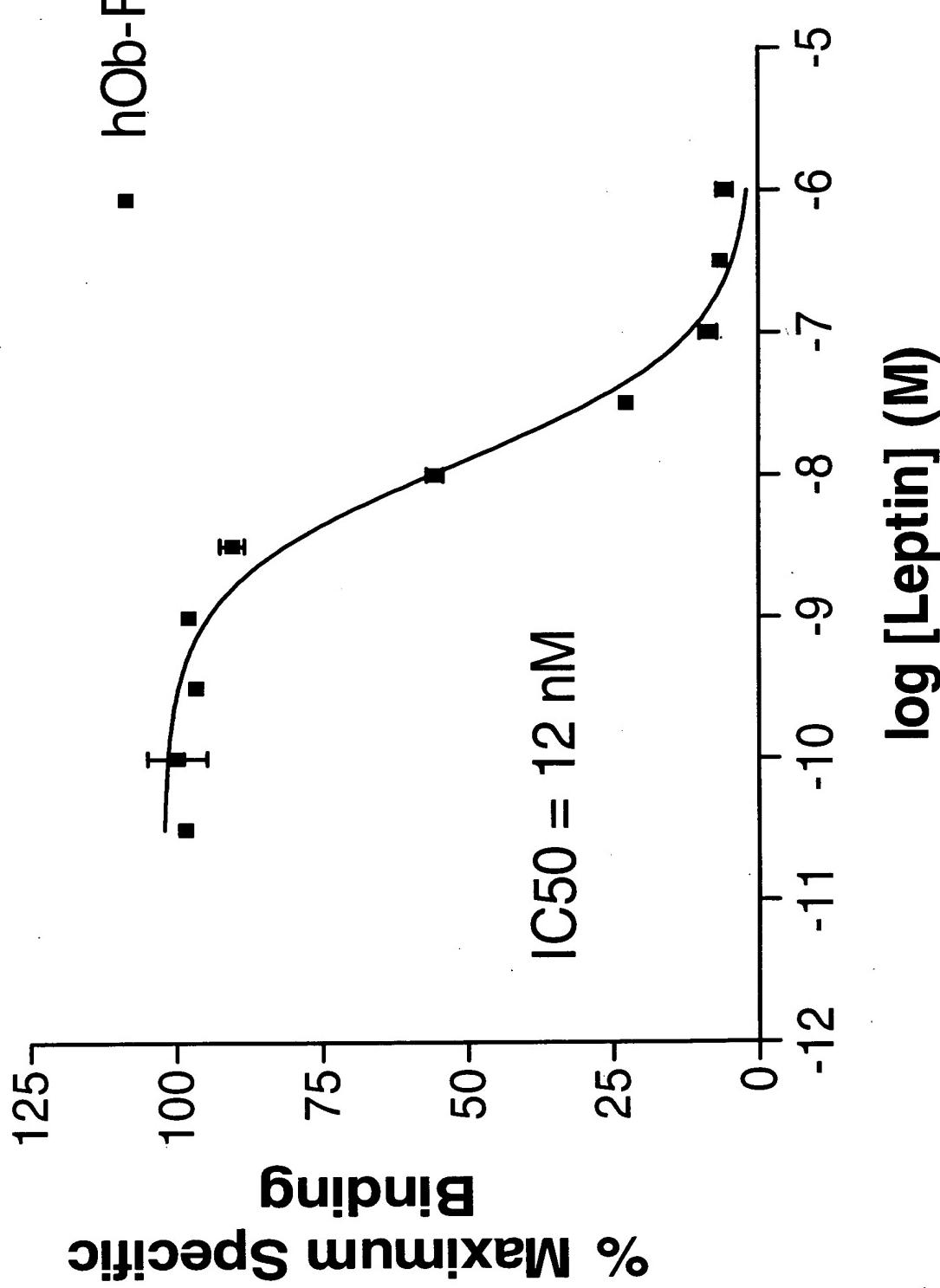
FIG. 8



APPROVED	O.G. FIG.
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FIG. 9



APPROVED: D.G. FIG.
BY CLASS: SUBCLASS
DRAFTS: JAH

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FIG. 10A

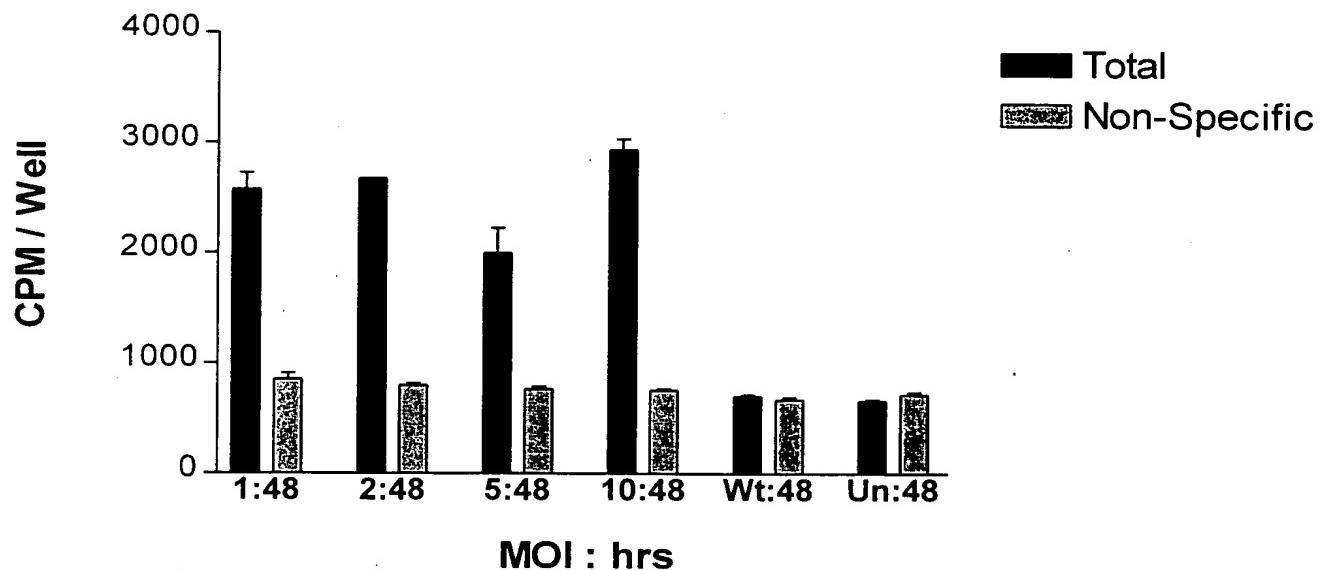
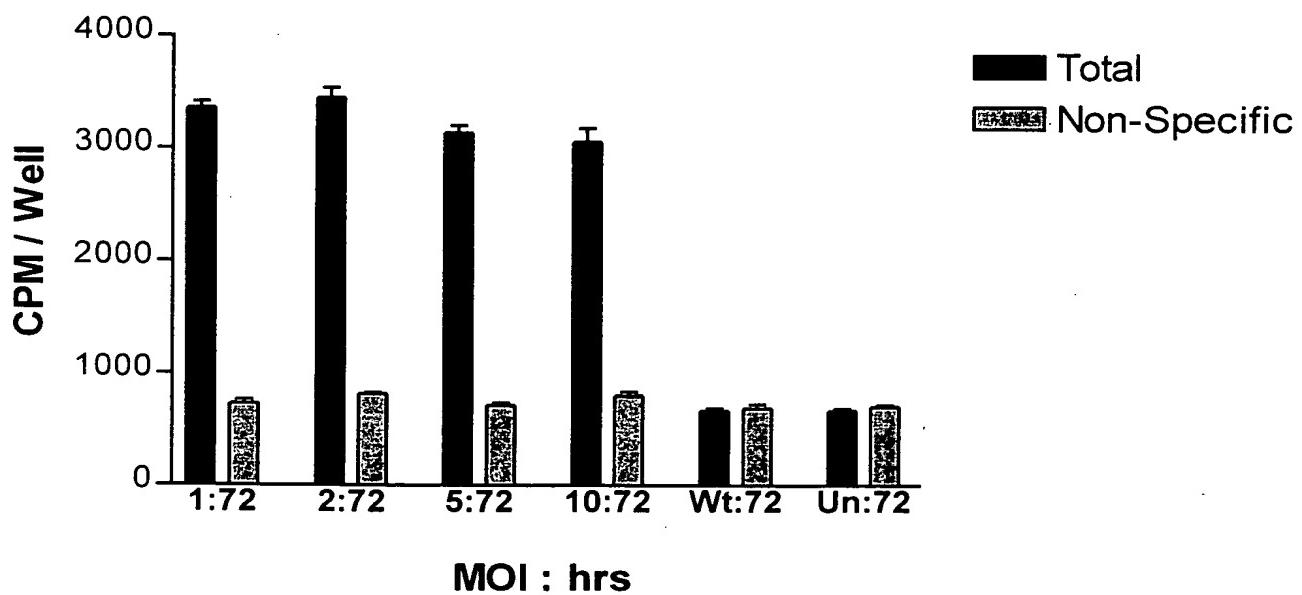


FIG. 10B



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FIG. 10C

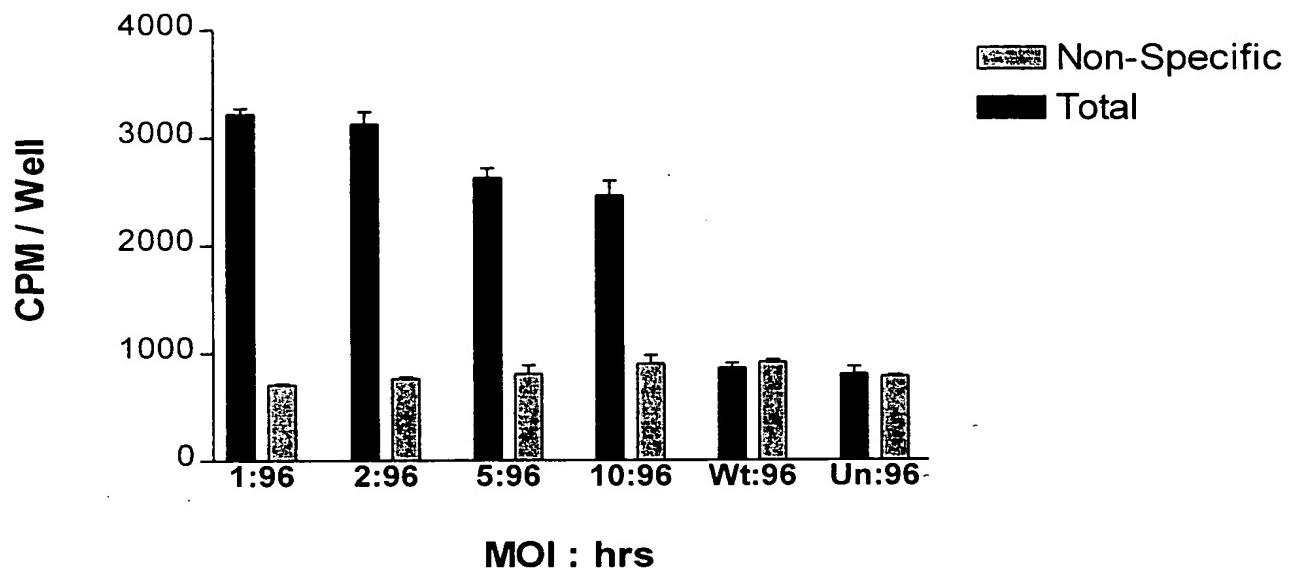
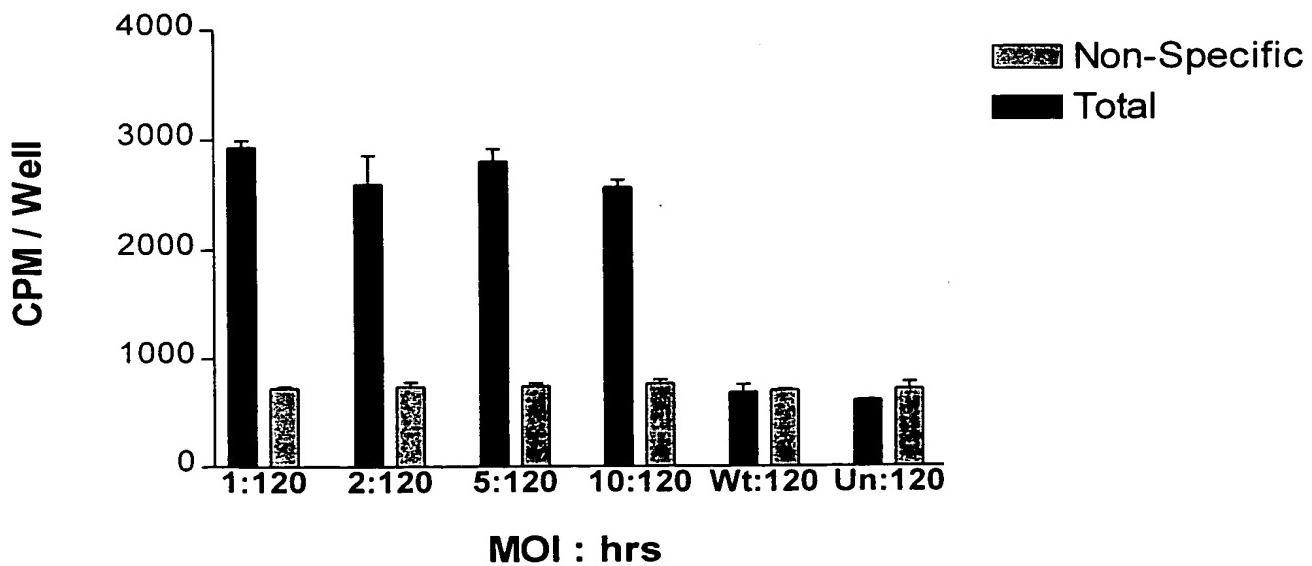
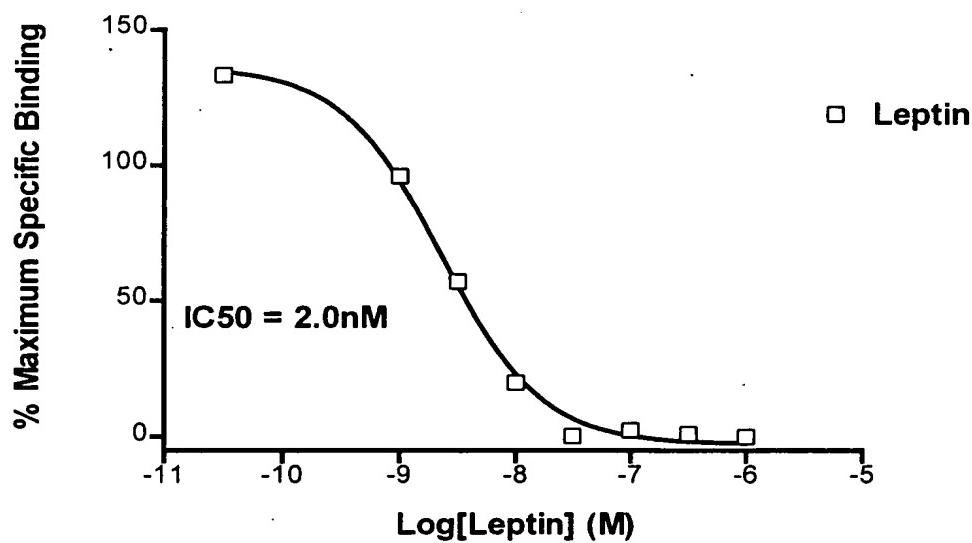


FIG. 10D



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FIG. 11A



RECEIVED IN CASTLE

FIG. 11B

